

INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 110.01290102	Serial No.: 10/822,533
	Applicant(s): O'SULLIVAN	Confirmation No.: 3326
	Application Filing Date: April 12, 2004	Group: 1632
	Information Disclosure Statement mailed: <i>July 2, 2004</i>	



U.S. PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>Jan</i>		2,785,108	03/12/57	Hawley			
		2,935,503	05/03/60	Hawley et al.			
		4,087,559	05/02/78	Mutai et al.			
		4,091,117	05/23/78	Mutai et al.			
		4,716,115	12/29/87	Gonzalez et al.			
		5,173,297	12/22/92	Vedamuthu et al.			
		5,294,458	03/15/94	Fujimori			
		5,340,577	03/23/94	Nisbet et al.			
		5,494,664	02/27/96	Brassart et al.			
		5,520,936	05/28/96	Delespaul et al.			
		5,594,103	01/14/97	De Vos et al.			
		5,602,109	02/11/97	Masor et al.			
		5,700,590	12/23/97	Masor et al.			
		5,753,614	05/19/98	Blackburn et al.			
		5,776,524	07/07/98	Reinhart			
		5,837,238	11/17/98	Casas et al.			
		5,877,272	03/02/99	Vandenbergh			
		5,902,578	05/11/99	Halpin-Dohnalek et al.			
		5,902,743	05/11/99	Lunchansky et al.			
		5,922,375	07/13/99	Luchansky et al.			
		5,952,314	09/14/99	DeMichele et al.			
		5,968,569	10/19/99	Cavadini et al.			
<i>Jan</i>		5,972,415	10/26/99	Brassart et al.			

EXAMINER

Deborah K. Wan

Date Considered

3-16-06

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Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>SK</i>		6,077,824	06/20/00	English et al.	—	—	
<i>SK</i>		6,746,672 B2	06/08/04	O'Sullivan	—	—	

FOREIGN PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	Copy Enclosed	Document Description
<i>SK</i>		American Type Culture Collection, "ATCC Number 9341," organism: <i>Micrococcus luteus</i> (Schroeter); designation: FDA strain PCI 1001 [online]; Manassas, VA [retrieved on 2002-04-03] from the Internet. Retrieved from the Internet: <URL: http://phage.atcc.org/cgi-bin/searchengine/longview.cgi?view=ba,534636,9341&text=9341 >; 2 pgs.
<i>SK</i>		American Type Culture Collection, "ATCC Number 29425," organism: <i>Escherichia coli</i> (Migula); designation: K12 [online]; Manassas, VA [retrieved on 2002-04-03] from the Internet. Retrieved from the Internet: <URL: http://phage.atcc.org/cgi-bin/searchengine/longview.cgi?view=ba,5225109,29425&text=k12 >; 1 pg.
<i>SK</i>		Anderssen et al., "Antagonistic Activity of <i>Lactobacillus plantarum</i> C11: Two New Two-Peptide Bacteriocins, Plantaricins EF and JK, and the Induction Factor Plantaricin A," <i>Appl. Environ. Microbiol.</i> , 1998;64(6):2269-2272.
<i>SK</i>		Archibald, " <i>Lactobacillus plantarum</i> , an organism not requiring iron," <i>FEMS Microbiol. Letts.</i> , 1983;19:29-32.
<i>SK</i>		Bezkorovainy et al., "Iron Metabolism in Bifidobacteria," <i>Int. Dairy Journal</i> , 1996;6(10):905-919.
<i>SK</i>		Bezkorovainy et al., "Aspects of Iron Metabolism in <i>Bifidobacterium Bifidum</i> Var. <i>Pennsylvanicus</i> ," <i>Int. J. Biochem.</i> , 1983;15(3):361-366.

EXAMINER <i>Deborah K. Way</i>	Date Considered <i>3-15-06</i>
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<i>[Signature]</i>		Bezkorovainy, "Iron Transport and Utilization by Bifidobacteria," <i>Biochemistry and Physiology of Bifidobacteria</i> , CRC Press, Inc., Boca Raton, FL, 1989:147-176.
<i>[Signature]</i>		Bollag et al., <i>Protein Methods</i> , Wiley and Sons, Inc., New York, NY, 1996; cover page, title page and table of contents only; 10 pgs.
<i>[Signature]</i>		Braun, "Effect of Consumption of Human Milk and Other Formulas on Intestinal Bacterial Flora in Infants," <i>Textbook of Gastroenterology and Nutrition in Infancy, Vol. 1</i> , Raven Press, New York, NY; 1981:247-253.
<i>[Signature]</i>		Breed et al., <i>Bergey's Manual of Determinative Bacteriology</i> , 7 th Edition, The Williams and Wilkins Co., Baltimore, MD, 1957; cover page, title page and table of contents only; 7 pgs.
<i>[Signature]</i>		de Ruyter et al., "Functional Analysis of Promoters in the Nisin Gene Cluster of <i>Lactococcus lactis</i> ," <i>J. Bacteriol.</i> , 1996;178(12):3434-3439.
<i>[Signature]</i>		Dodd et al., "Analysis of the genetic determinant for production of the peptide antibiotic nisin," <i>J. Gen. Microbiol.</i> , 1990;136(3):555-566.
<i>[Signature]</i>		Eijsink et al., "Induction of Bacteriocin Production in <i>Lactobacillus Sake</i> by a Secreted Peptide," <i>J. Bacteriol.</i> , 1996;178(8):2232-2237.
<i>[Signature]</i>		Engelke et al., "Biosynthesis of the Lantibiotic Nisin: Genomic Organization and Membrane Localization of the NisB Protein," <i>Appl. Environ. Microbiol.</i> , 1992;58(11):3730-3743.
<i>[Signature]</i>		Engelke et al., "Regulation of Nisin Biosynthesis and Immunity in <i>Lactococcus lactis</i> 6F3," <i>Appl. Environ. Microbiol.</i> , 1994;60(3):814-825.
<i>[Signature]</i>		Fuller, "Probiotics in man and animals," <i>J. Appl. Bacteriol.</i> , 1989;66(5):365-378.
<i>[Signature]</i>		Fuller, "Probiotics for Farm Animals," <i>Probiotics: A Critical Review</i> , Horizon Scientific Press, Wymondham, UK, 1999:15-22.
<i>[Signature]</i>		Green, "Case report: fatal anaerobic pulmonary infection due to Bifidobacterium eriksonii," <i>Postgrad. Med.</i> , 1978;63(3):187-188, 190, 192.
<i>[Signature]</i>		Gibson et al., "Regulatory effects of bifidobacteria on the growth of other colonic bacteria," <i>J. Appl. Bacteriol.</i> , 1994;77(4):412-420.

EXAMINER <i>[Signature]</i>	Date Considered <i>3-14-06</i>
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<i>JS</i>		Hansen, "Nisin as a Model Food Preservative," <i>Crit. Rev. Food Sci. Nutr.</i> , 1994;34(1):69-93.
		Ibrihim et al., "Inhibition of <i>Escherichia coli</i> by Bifidobacteria," <i>J. Food Prot.</i> , 1993;56(8):713-715.
		Immonen et al., "The codon usage of the <i>nisZ</i> operon in <i>Lactococcus lactis</i> N8 suggests a non-lactococcal origin of the conjugative nisin-sucrose transposon," <i>DNA Seq.- J. Seq. Map.</i> , 1995;5(4):203-218.
		Klaenhammer, "Genetics of bacteriocins produced by lactic acid bacteria," <i>FEMS Microbiol. Rev.</i> , 1993;12(1-3):39-85.
		Kuipers et al., "Characterization of the nisin gene cluster <i>nisABTCIPR</i> of <i>Lactococcus lactis</i> . Requirement of expression of the <i>nisA</i> and <i>nisI</i> genes for development of immunity," <i>Eur. J. Biochem.</i> , 1993;216(1):281-291.
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		Modler et al., "Bifidobacteria and Bifidogenic Factors," <i>Can. Inst. Food Sci. Technol. J.</i> , 1990;23(1):29-41.
<i>JS</i>		Muñoz et al., "Selective Medium for Isolation and Enumeration of <i>Bifidobacterium</i> spp.," <i>Appl. Environ. Microbiol.</i> , 1988;54(7):1715-1718.

EXAMINER <i>Delbert K. Nye</i>	Date Considered <i>3-14-06</i>
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<i>JS</i>		Neilands, "Molecular Aspects of Regulation of High Affinity Iron Absorption in Microorganisms," <i>Metal-Ion Induced Regulation of Gene Expression</i> , 1990;8:63-90.
		Neilands et al., "Comparative Biochemistry of Microbial Iron Assimilation," <i>Iron Transport in Microbes, Plants and Animals</i> , Winkelmann et al., Eds.; Weinheim, Germany, 1987:3-33.
		Nes et al., "Biosynthesis of bacteriocins in lactic acid bacteria," <i>Antonie Van Leeuwenhoek</i> , 1996;70(2-4):113-128.
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		O'Sullivan, "Cloning, organization and regulation of genes involved in iron metabolism in fluorescent <i>Pseudomonas</i> spp. with biocontrol potential," Ph.D. thesis, National University of Ireland, Cork, 1989:1-120.
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		Pretlow et al., "Aberrant Crypts in Human Colonic Mucosa: Putative Preneoplastic Lesions," <i>J. Cell Biochem.</i> , 1992;Suppl. 16G:55-62.
<i>JS</i>		Rambaud et al., "Dairy products and intestinal flora," <i>Dairy Products in Human Health and Nutrition</i> , Rios et al., Eds., 1994:389-399.

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*Deborah Harris**3-16-06*

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<i>JSW</i>		Rammelsberg et al., "Antibacterial polypeptides of <i>Lactobacillus</i> species," <i>J. Appl. Bacteriol.</i> , 1990;69:177-184.
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<i>JSW</i>		Steen et al., "Characterization of the Nisin Gene as Part of a Polycistronic Operon of the Chromosome of <i>Lactococcus lactis</i> ATCC 11454," <i>Appl. Environ. Microbiol.</i> , 1991;57(4):1181-1188.

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<i>JS</i>		Stevens et al., "Nisin Treatment for Inactivation of <i>Salmonella</i> Species and Other Gram-Negative Bacteria," <i>Appl. Environ. Microbiol.</i> , 1991;57(12):3613-3615.
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